A New Drawbridge at Paris.

The illustrations show a new kind of drawbridge watch has in ely been completed at Paris, France. It is at the point where Orine a street crosses the Ouroq canal. The that name in the Retz forest. At first it was sim ly a water supply. Later it was made navigable. The passage channel for boats is now forty-nine feet wide, and its depth ten and a half feet,

In the il.u. ration, the old arched foot bridge for passengers appears behind the other bridge. The new bridge moves up and down, instead of whirling upon a pivot in the center of the canal. Thus the whole



FIG 1.-BRIDGE DOWN.

Fig. 1 shows the bridge when it is lowered. The abutments are built of millstone grit,

One remark the fact about the street and capal is that a sewer leads underneath them. Through a ripe in that sewer telephone and telegraph lines and pneumatic tubing passed. The difficulty in the way was to lower the depth of the canal without changing the level of the sewer. This was accomplished by making two conduit pipes. The sewer was rebuilt of the millstone grit masonry and the lines and tubing were passed



FIG. 2-BRIDGE UP.

In Fig. 2 the bridge is raised for the passage of one of the small steemers that constantly ply the waterways of Paris

The mechanism for lifting and lowering this unique bridge is very simple. At the four corners are four cast-iron cylinders. At their top are pulleys balanced by weights, Strong iron chains pass over the pulleys, and by means of these the bridge is elevated and depressed. The roalway is seventeen feet wide. It is composed of a compound of coal pitch and sawdust, with four inches of wooden flooring upon it. The roadway is in the center, with pa hs for pa sengers each

Dropping An Elevator.

The second test of the Eilithorpa air cushion in The Times elevator occured recently. A few minutes before the appointed hour the car was run up o the fifth story, and a glass of water and a box of ergs placed on the floor. Co. R. N. Hunt, Mr. F. T. Elli horre a son of the inventor, Mr. E. D. Rogers and the elevator conductor entered the cleva or, and Bob, The Times dog strayed in to take a ride

Everything being in readiness, the whistle was blown as a signal to cut the rope. The passengers sat down on the elevator cushion and they and the spectators drew a long breath. The dog began to suspect something, and when the whistle was blown he bounded into the air very much as does a rabbit after receiving a lead of shot. At the same instant the rope was cut, and the car dropped to the lottom of the elevator way almost before the spectators were aware that it had started. Bob, surprised in the act of jumping, remained in that relative position during the entire descent, giving the appearance of being suspended in mid-air. He lighted in the egg basket when the car came gently to a standstill at the bottom of the well, and set up such a howling that the spectators rushed to the car, in four that all inside the elevator were hurt, The gentlemen, bowever, issuel from the elevator entirely unharmed, and with decidedly fewer misgivings than when they entered it. Col. Hunt especially was well pleased with the trip, "I felt as I have often done when I have dreamed of falling down a precipice," he said. "But that is infinitely better than to have one's legs snapped off."

The Ellithorne air cushion is the invention of Col. A. C. Ellithorpe, of Chicago. The tavention is as simple as it is efficient. It consists of an almost hir-tight well at the bottom of the elevator hatchway into which the car fits. In order to retard the motion slowly, which would not be the case were the well the exact size of the car, the top of the chamber is made abut six inches larger than the bottom of the car. In this way the cur, instead of violently rebounding on reaching the air chamber, settles gently into the well until within about four feet of the bottom when the rubber flanges on the floor of the car, fliting more closely to the sides of the chamber, form an air-tight compartment, The rest of the descent is almost imperceptible. The rubber flanges perform another service. Being nearly the size of the top of the well, they prevent too much air escaping, and, being flexible, allow a sufficient amount to escape to prevent a rebound, -Kansas City Times.

The New Nall.

The new nail, to be made of old steel rails by the Coyne patent, is made on a self-feeder, and will, it is claimed, revolutionize the nail manufacture. By this method semi-wire onils for boat, barge, track and railroad spikes, as well as the common cut nails, can be made without changing the manner of the operation. This improved nail will be of the ame pattern and appearance as those now made, except that the inclined sides will be smooth, and the parallel sides will be the cut or rough surfaces, thus increasing the adhesive power of the nails. Semi-wire nails will be with four parallel sides and a chisel point. The output will be at least three times that of the regular wire nail. The boat, barge, track and railroad spikes will have the same appearance as those now made from rods. The heads will not come off in driving by vibration or extraction, and any shape of head can be produced. It is estimated that it will save \$4 per ton on the labor in manufacturing nails. The only change involved will be a modification in the process of rolling the plates.

The Largest Sewer in the World. A sewer is building in Washington, which is seven feet larger in diameter than any other in the world. In its smallest part it is larger than the largest in the sewers and back with a long needle. In the first in Paris. For over 2,000 feet it is a circular row a loop is taken through every statch of sewer of twenty-two feet in diameter. There the foundation, working forward. After is connected with it a sewer 5,000 feet, or taking up all the loops, pull the wood nearly one mile, in length, and twenty feet through the last one, then through two and in diameter. A fully equipped palace car, two to the end of the row. These two rows

locometive and all, could be run through it of work form one row of the stitch. In the without difficulty. This enormous sewer is intended to drain the immense water shed lying to the north of the city. Besides that, it will carry to the eastern branch of the Potomac all the contents of the smaller system of sewers in the northern part of the oity. It will take a year to complete the

American Steel Rails Not Good. The order for 10,000 tons of steel rails for the United States recently placed in England, although at a price, when duty and cost of conveyance are paid, £3 10s, per ton above the current rate for American rail, bas its explanation in the report of the engineer of the Michigan Central rallway, showing that the life of an American steel rall is exceedingly short. Of 586 that he laid down in July. 1884. 210 had been removed by last February, and at the end of twelve months 50 per cent had required taking out.

Dakota will open a state school of mines

ear the Black Hills. An electric governor, for regulating elecric motor service, has been invented.

J. Schweizer, of Solothurn, Switzerland. has patented a steam velocipeds, which at-tained a speed of about twelve and a balf

The United States army and navy are disputing about which shall have the manage ment of the new torpeloes for coast defenses. The navy ought to have it.

New York, San Francisco, Boston, the lake ports, Humpton roads, New Orleans, Philadelphia, Washington and Baltimore, in the order named, are in need of better coast

Awfully wise is Professor Simon Newcomb. He reports to the Psychical society that the phenomena of thought transference may be due either to an unknown law of nature displayed under phenomena we cannot control, or else to special circumstances which are unknown to us.

In spite of peace among the great pow ers, Krupp's German gun works have turned out a larger number of heavy pieces during the last three months than are usually made in a whole year. The heaviest delivery was made to Turkey, Greece and Servia, in the order named

A concession has been granted by the Swiss government to a firm of electrical engineers at Geneva for making a railway up Mont Salene, near that place. The line vill be made with a central rack very similar to that of the Right line, the toothed pinion which works into it being driven by machinery.

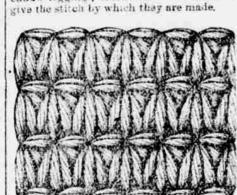
A r-markable explosion which occurred in Germany shows the force possessed by dust. A sack of flour, falling down stairs, opened and sea tered the contents in a cloud through the lower room, where a burning gas flame set fire to the dust, causing an explosion which lifted a part of the roof of the and and broke almost all the windows.

inoculation for snake poison has been practiced in Dutch Guiana for centuries, it killed, its glands cut out, dried and pulverized. Then a slight scratch is made in for carpet. Sew them together, wind in the wrist, and a main e particle of the balls and process. Take very coarse crovenomous dust rubbed (ato it. After that chet book. If not is to be oblong, make be bitten by snakes and escape poisoning.

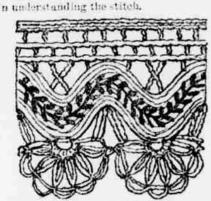
Some Fancy Work.

Last week this column showed design for

chill's leggings, crocheted. This week we



CROCHET STITCH FOR LEGGINGS. Ladies who crochet will have no difficulty



The illustration shows some pretty and strong edging for children's clothing. For ladies' garments, too, it is not bad. This trimming is made with serpentine braid and crocheting. The serpentine braid is quite fashionable now. On the serpentine braid is a row of feather stitching in red made with Turkey re! marking cotton. The trimming is made o No. 45 braid and 24 crocheting cot on. The pattern may be infinitely varied, according to the kind of braid and fluish used. Medallion braid furnishes the foundation for various handsome and funciful edgings. Insertion may also be made from the braid by simply crocheting two rows on each side of it. Then put the red feather stitching upon the braid, and you will have a pretty and tasteful design.

Crocheted red woolen petticoats are very fashionable and very warm. The making of one is pleasant work, also, for women who have nothing more important to do,



Fig. 1. Fig. 1 shows a crocheted skirt. It is made of red Germantown or zepher yarn, with a red or white border. The plain part is worked in Afghan stitch. Beg n in the middle of the back and make a chain of 105 stitches for medium size. Then work across

following rows, instead of taking the loops through the chain at the top, take them through the perpendicular veins that lie on the surface of the work. As the work progresses, make short rows for gores, to widen the bottom of the skirt

Fig. 2 is a petticoat of pink flannel. It is trimmed with an embroidered border in maroon silk. The border is worked partly in satin stitch and partly in point russe. The scalloped edge at the bottom is simply button hole stiched. Two and a half yards of finnel, thirty-two inches wide, are reuired for the garment.

Spring and Summer Dress Fabrica. In spring and summer fabrics we are to see the most lavish displays of embroidery. All cotton materials will be very effectively, but not thickly, wrought. The present fancy is for sparsely set work, more like needle etching than embroidery. Founces forty inches wide will have two-thirds of their width covered by this work, with applique figures in contrasting colors. Em-broidered pongee in similar effects will be popular, and also pongee having velvet ap-

diqued with embroidery outlines.

Cotton goods will be very thin and sheer. Batist will be one of the most popular of summer fabrics. This name is given to a quality of both wool and cotton goods that is distinguished for theness and roundness of thread. Wool batist is the finest grade of wool goods that is made. The threads are rather hard twisted, and the fabric is very even and has a perfect mesh. The same style of thread and weaving is seen in both the wool and cotton goods

Spring colors are lighter, clearer and more cheerful than for some seasons past. The change from the somberness of seal brown, navy blue and black is exceedingly pleasant, and while the e colors will not be discarded, yet brighter ones will be judiclously intermixed with dark shades, giving a very welcome variety. - Demorest's

Soperb Black Toilet. The liberal use of jet ornaments and beaded embroideries also keeps black todets in the foremost rank of the present styles. These dresses are not only much liked for day wear, but they also render good service in the evening, particularly when combined with light-colored silks. A toilet of this kind may be composed of a black satin skirt, embroidered in front with a superb peacock, in three shades of beads combined with gold. A second skirt of jet lace opens is realingo'e style and shows the front of the pron with the embeddered bird. The waist and train are of black velvet. The train is aken tock or one side by a jet fastening and heavy jet and god ornaments. The rout of the low necked waist is worked with et. The cliow sleeve is of beided lace. Bordering the lower and upper part of the waist is a row of large beads. This makes a very proper dinner dress.

Rag Mats.

I must tell you how to make ray mats. I have one now nearly completed which I s said. A poisonous snake is enraged, think quite pretty. I cut my rags, all sorts, stocking legs best of all, in strips finer than it is claimed that the person inoculated can chain according y. If round, two statches will do, and go round and round in single crochet; that is, draw rag through with book, put rag over book and draw through the two stitches. Arrange colors to fancy. The center of mine is bright red, quite a farge space, and afterward his and triss, Reight, contrasting colors, light and dark, have a very pleasing effect, which can be

Woolen Dresses.

Wool dresses are "all the year round" candard goods. There are nowadays no e conable distinctions in the regular grades f woolen does fabrics, except in a few etable instances. Serges, flannels, Lison. loths and all of the ordinary suitings appear erularly in our streets in all weathers save | place in the term he most sultry of midsummer, and the usa t thin wood fabricaev in for summer dresse: s becoming so general that such materials as sateen and other very closely woven cools have declined in popularity to a park didegree, and lighter, looser textured abries are cubstiluted.

Early Spring Millinery.

Turbans will be wern by laber to whom her are becoming Many young ladies provide a turban for windy weather, as it is to much easier to keep on than anything that has a brine. English straw bonners and hats are among the most comfortable of spring head gear. If trimmed with light materials they will be specially welcone after the heavy velvet and wool trimmings that the past season has given us. Scarfs of crape or soft sik are knotted loo ely around the crowns of hats and fastened with a few slides or pins.

How to Wear the Watch.

A silver watch and chateleine is worn under the front of the barque, or else the chain is short with a bull at one end, and the watch at the other end is thrust inside the bosom of the dress. Or you can have a watch pocket unde quite near the inttons on the left side, and put a bar chma in a button hole near, then pass the chain across to the watch pecket. Another fancy is to tie a bow of ribbon on the watch ring and pass the watch juside the dress, leaving the decorative bow

Silver Helts.

Quite new in silver belts are flexible ones, composed of three rows of coins. Some of these show the nugget finish, while others have plain surfaces. All are beautiful, and afford a pretty finish for the elaborate wash dresses which leading modistes assert will be largely worn again at country resorts next

FASHIONLETS.

White dresses will be much worn the coming season.

The rough, wooly boucle and "nigger nead" goods have gone out of fashion. Bronze and oxidized silver cloak and mantle classe are more worn than ever.

Ribbons will be showered upon dresses in every conceivable way the coming season. Striped black velvet is used in combination with heavy gros grain and black silks. The shaving brush pompon, standing straight up, is now the fashion for girls'

and young ladies walking hats. Ribbon is much worn in the hair. Rosettes of many ends of ribbon, cut into points, are mounted upon hairpins.

Elamine waven fabrics, in rich mixtures of color, on wine colored grounds, compose part of late importations of spring dress goods.

Ladies, by the thou ands, are learning dower painting and indoor decoration. They are adorning their own homes beautifully. This is he most enchanting of all fancy work. The foundation of it is good

For the intermediate season between winer and warm weather commination dresses of silk and velvet or cloth and velvet will e worn. Pain and figured goods will be combined, with the figured goods made

## BOYS & GIRLS

Piremen's Horses. Firemen are proud first of all of their meantiful bright engines. Next to that they are fond of the borses that draw the engine o the fires. These are always large, handome animals, very docile and intelligent They have a real hum in look in their bright, oft eyes. The firemen spend much time petting and training them, till some of them really seem to know almost as much as peo-ple. They follow the men about like so

many pet dogs, and rub their noses against Just remember this: If you are kind o animals and patient with them you can make them do anything you want them to On the other hand, if you best, kick and raff them they will become savage and dangerous, and bite and kick you. When you are inclined to heat a poor dumb brute, just think how it would feel to have the blow descend upon yourself. It hurts just as much when it falls upon the cow or horse. Firemen would be very angry with any-

body who should mistrent their horses They teach them to perform almost as well as the ponies in a circus.



"NIGGER" UNFASTENING HIS HALTER. In New York city, at one of the engine uses, is a famous horse named Nigger, He was a scrawny-looking animal enough when the fire department first got him, but by good feeding and kind treatment he has become a beauty. He is very large and

May be you don't know it, but horses are very fond of sagar. Nigger particularly likes His stable is near the produce exchange. Every day bankers and brokers and rich men come into the stable from the product exchange and being him lumps of sugar. A gentleman boll- up a sweet lump and says: "Nigger, do you like sugar?"

The beaut fai animal neds his head gracefully, as if te say, "Yes, indeed."
"What would you do with it?" the gentle-

Nigger smacks his lips with great relish, to suggest that he would know very well what to do with it if he had it. Then it is put into his mouth.

But his catest trick is to unfasted his own halter. That is what he is doing in the picture. Every day at 12 o'clock all the fire engines in the city are bitched up. This is engines in the city are hatched up. This is engines in the city are betched up. This is done in cities the cuchant the country. The intelligent ho so, there are, netually watches the clock, and can tell when the hands point to 12 as well as a man can. The hor es are fed at this time, too, and that A. probably has something to do with N ggar s knowl dos of the hour. Just at 12 a fireman tells the horse to take his place in front of the engine. His halter is fastened to a ring by a sump suring. The intelligent ans-real lifes his hoof and presses the spring, The limiter drops and he trots out to his

That's all," says his master. Then he trots back to his stall,

"Feg. Nigger, beg for your feel," says the breman next. The horse lifts one of his corefust as I paws the air, like a dog, till he tohis ox's. A newspaper man was taking some notes

clear him one day, when the horse raised his hoof, unhitened himself, walked over to the place, bulled the notabook out of the reporter's hands with his teeth and walked off with it. He didn't seem to like being writwith it. He didn't seem to like being writ-ten about. Lee has a clozen other tricks that Court House, Otiaws, Ill. july275 are quito as laction ting.



"JIM" RINGS THE FIRE ALARM. Another New York fire engine horse is a beautiful bay named Jim. In the center of the second floor of every engine house is a large round hole. In the middle of it is a copply Superintendent of Public Schools polished pole. When a fire alarm rings sudlenly in the night, and the men are in bed, they spring u on their feet, run to the hole in the flor, and slide down the pale in the twinkling of an eye. It takes nuch less time than running down a flight c' stairs, and the toys thus get to the fire a se oud or two somer. Every instant counts in a fire. Jim had noticed the bell cord which the

watchman pulls to rouse the men. He had observed that when the cord was jerked the man came tumbling down the pole like mad. He took it into his horse head then that he would play a joke on them. So, in the middle of the night, when they are all in deep seep, what does this fonny horse do but lift his boof, press the spring of his from WASHINGTON. halter and free himself. Then be goes out into the stable, grasps the bell rope in his teeth and gives a pull that makes a sound like a clap of thunder. The men start from their seep and slide down the pole like a flish of lightning. Jim looks as though be would like to give a hor e laugh if he dared. and trots back to his stall. He really seems to appreciate the joke he has put upon the Perhaps he gets lonesome in the night and wants to see his friends around

These are only a few of the things the fire horses do. The artist of the Boys and Girls department visited Nigger and Jim in their engine houses and drew their pictures just as they are.

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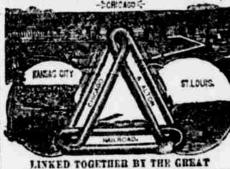
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